

VASAKRONAN

REFERENS CASE DURING BUILDING CONSTRUCTION PROCESS



BACKGROUND OF THE COMPANY AND PROJECT

This project is about the construction of a 10,000 square meter office building named Celsius in Uppsala north of Stockholm. The project was started in 2018 and hand-over is estimated at the end of 2020. A strategy in this project has been to lower the energy consumption still delivering in accordance with schedule.

WHAT PROBLEMS DID AIRWATERGREEN SOLVE?

Airwatergreen dehumidifier are used to lower and maintain a correct moisture level inside the building during the construction process. A significant reduction in energy consumption has been registered, but also improved climatic conditions in the building during the project.

Airwatergreen dehumidifier technology makes the dehumidifier equally effective at all temperatures. Including lower temperatures. Installation is plug 'n-play without the need for any ventilation pipes. This means that all energy stays inside the building. The condensed water is easily led to the nearest drain and as the dehumidifiers are mobile it has been possible to reposition one or two of the machines inside the building to address temporary local humidity load.

HAVE OTHER TECHNOLOGIES BEEN TRIED?

Traditionally, different types of ventilation and/or heating are used during the construction process. This is to remove humidity from the building materials, and to keep the relative humidity level (RH) below 60% in the building. Ventilation and heating during the construction process is expensive, since a big part of the energy is ventilated out of the building.

QUICK FACTS

Product:

4 REX dehumidifiers and
2 FLEX dehumidifiers,
placed in the building.

Installation year:

Aug-19

Reason:

To lower the energy
consumption during
building process.

"WE ARE PLEASANTLY SURPRISED AND VERY PLEASED WITH THE REDUCTION WE CAN SEE IN TERMS OF HEATING COSTS. WE HAVE ALSO HAD A PLEASANT INDOOR CLIMATE THROUGHOUT THE PROJECT. "

ANDERS BOSTRÖM, PROJECT MANAGER AT VASAKRONAN.